



QUICKSET AUTOMATIC VIDEO TRACKING SYSTEM

The Quickset Automatic Video Tracking is a low-cost, high-performance video tracking system designed to meet the demands of the surveillance and UAV markets. The advanced technology at the core of the video tracker allows complete interface customization to meet the requirements of the most demanding applications.

The tracker is available in two configurations. The first configuration provides two HD-SDI capable video inputs. The second configuration provides a single HD-SDI capable input and an analog (NTSC/PAL) video input. Both configurations provide a single HD-SDI video camera output that can be used to display either of the video signals.

The HD-SDI digital video interfaces support standard and high-definition resolutions up to 1080p30 (SMPTE 259M/344M/292M)..

Standard Features

- Embedded Tracking Algorithm
 - User selectable tracking modes for improved target acquisition and retention
 - Multi-Target Tracking
 - Automatic coast mode for improved object tracking through occlusions
- Control Interfaces
 - Ethernet Interface (10/100)
 - RS-232/422 serial communication ports for peripheral device control
- Video Interfaces
 - SDI Video Inputs (2) and SDI-Output (1) (SA00203 Model)
 - SDI Video Input (1) and Analog Video Input (1) and SDI-Output (1) (SA00202 Model)
 - Interlaced and Progressive Formats
 - Resolutions up to 1080p30
- Streaming video over Ethernet
 - Multiple CODEC / Transport options (H.264/ H.265/ MPEG-4)
- Integration
 - Fully integrated tracking platform when paired with QuickSet MPT series EO/IR tracking systems and electronics interface box
 - Serial control of QuickSet camera/lens systems
 - Serial control of QuickSet laser range finder
 - Multiple radar control options possible
 - Fully integrated with QuickSet control software
 - Easy integration with custom command and control applications
 - Configurable motion compensation (PID) filter
 - Zoom lens scaling and correction
 - User configurable image overlays
 - Tracker discovery on network using broadcast command

Available Options

- Tracker control using USB joystick
- Environmentally ruggedized Quickset camera system
- Environmentally ruggedized Quickset electrical interface box
- Additional image processing algorithms / filters
 - Electronic Image Stabilization (EIS)
 - Local Area Processing (LAP)
 - Image Blending
 - Histogram, Gamma Correction, Denoise, etc
- Custom Algorithms / Symbology / Annotation
- Operator Training (onsite / offsite)

Typical Applications

- Surveillance
- Real Time Missile and Aircraft Tracking
- Weapon Systems
- Simulator Systems
- Trajectory Analysis
- Bomb and Weapons Scoring
- Electronic Counter Measure (ECM) Evaluation
- Re-entry Vehicle and Satellite Tracking

Engineering High Performance Tracking Solutions

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Quickset Defense Technologies, LLC 3650 Woodhead Drive, Northbrook, IL 60062



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Functionality

Switch video source on the fly

Target reacquisition may be required

User Configurable Tracking Modes

- Vehicle
- Stationary
- DronePerson

User Configurable Tracking Box

Manual

User defines size and shape of track box

Acquisition Assist

Tracker automatically optimizes track box size

Intelligent Assist

Tracker automatically reinitializes if target appearance changes

Automatic Coast Mode

Provides optimal recovery from intrusions and disruption of track
User configurable coast period and output behavior

Library

- Object Classifier library
- Quickset Mount and Camera Selection Library

User Configurable Image Overlays

- Tracking box outline
- Reticle
- KLV data
- Standard shapes (Lines, boxes, circles)
- Text data

User/Diagnostic Functions

- User defined configurations
- Built-In Test Capability
- Field Downloadable Software Updates

Graphical User Interface

PC-based program for setup and testing through the Ethernet interface

Streaming and Recording

- Simultaneous streaming of both video inputs
- Configurable video stream settings
- Picture In Picture available
- Ability to insert metadata into video stream
- Edge recording available



*Specifications subject to change without notice.
Consult factory for latest specifications and available options.*

Quickset Defense Technologies, LLC 3650 Woodhead Drive, Northbrook, IL 60062

Phone: 847-498-0700 • Fax: 847-498-1258 Email: sales@quickset.com • website: www.quickset.com